DSD-080 SEISMIC SECURITY PANEL



DESCRIPTION

DATAKOM DSD-080 Seismic Security Panel monitors seismic motions of a strong earthquake and provides relay output signals from it. Output signals are used to shut-off critical installations as natural gas and LPG systems, generators, elevators and the like.

The unit helps reducing damages of a probable earthquake. On its graphical display screen, the unit shows system status.

DSD-080 incorporates highly sensitive triple axis seismic sensors. The unit is maintenance free and capable of making self-test. The earthquake sensing specifications of DSD-080 conforms to both ANSI Z21.80 (1981), ASCE 25-97 and TS-12884(2002) standards.

DSD-080 operates on mains with a battery backup. 24V/1.2A-h batteries are incorporated to the unit. The unit provides automatic battery charging feature. During long mains failures, if batteries get low, the unit gives audible and visible alarm.



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FEATURES

- Wide operating voltage range (85-305VAC)
- Conformal to international earhquake standards
- Triple axis motion detection
- Automatic self-test
- Internal audible warning
- Internal 24V battery
- 5 programmable relay outputs (5Amp)
- Visual indicators for battery status
- Wide operating temperature range (-10...70°C)

TECHNICAL SPECIFICATIONS

Operating voltage: 85 to 305VAC Supply power: 4W maximum. Battery charge voltage: 27.5VDC (+/-0.2V) Battery charge current: 100mA. maximum Low battery voltage limit: 22V. (+/- 0.3V) Current drain from battery: 15mA. max from 24VDC (All relays passive) Additional 6mA for each energized relay. Battery capacity: 24VDC, 1.2A-h **Operation from battery:** >24 hours (typically 72 hours) Self test: At power-on and reset. Switching: 5 relay outputs (5A / 30VDC / 250VAC) Audible warning: 85dB/1m buzzer. Operating temperature range: -10 to +70 °C Relative humidity: 10% to 90% (non condensing) Weight: 1900 grams (approximative) Dimensions: 192 x 120 x 65mm (W x H x D)

Sensor Specifications

Sensor type: Triple axis polysilicon semiconductor acceleration sensors. Sensor operating limits: ±2g. Sensor failure limit: more than 50g. Acceleration threshold: TS12884, ANSI Z21.80 (1981), ASCE 25-97 Detection delay: 0.5sn. maximum

Frequency range: 0.5Hz to 25Hz



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